

from W.B. Hamilton

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF THE

Agricultural College

OF

PENNSYLVANIA.

FOR THE YEAR 1864.



PHILADELPHIA:

JAS. B. RODGERS, PRINTER, 52 AND 54 NORTH SIXTH STREET,

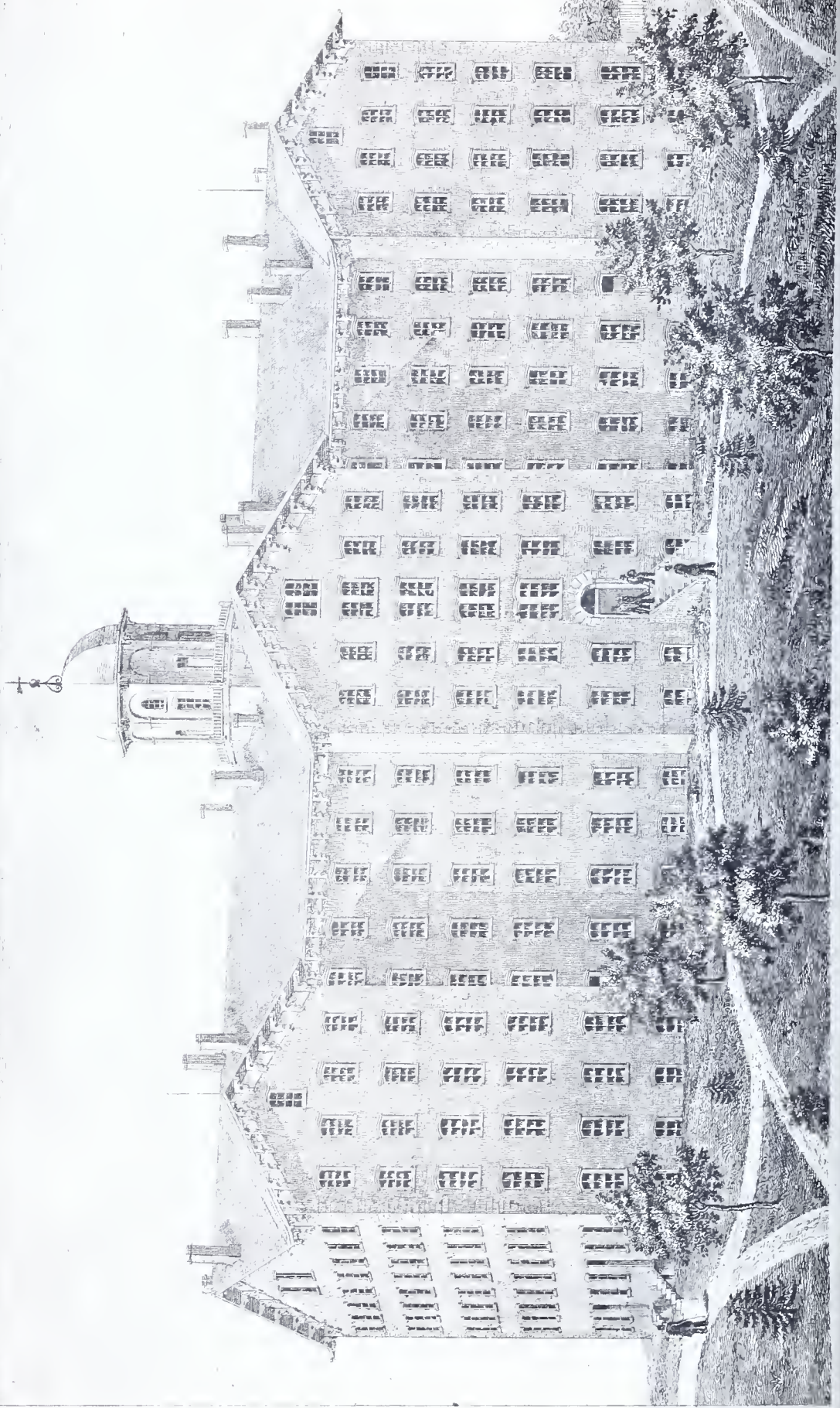
1865.





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JAMES B. RODGERS, BOOK AND JOB PRINTER, 52 & 54 N. SIXTH ST.

1865.

BOARD OF TRUSTEES.

EX-OFFICIO MEMBERS.

HIS EXCELLENCY, ANDREW G. CURTIN, *Governor of Pennsylvania.*

HON. ELI SLIFER, *Secretary of the Commonwealth.*

HON. THOMAS P. KNOX, *President of the State Agricultural Society.*

WILLIAM H. ALLEN, LL. D., *President of the Faculty.*

ELECTED MEMBERS.

	Term of Office Expires.
HON. A. O. HEISTER, DAUPHIN COUNTY,	<i>September, 1865.</i>
“ JAMES T. HALE, CENTRE COUNTY,	“ 1865.
“ SAMUEL CHADWICK, ALLEGHENY COUNTY,	“ 1865.
“ FREDERICK WATTS, CUMBERLAND COUNTY,	“ 1866.
“ JAMES MILES, ERIE COUNTY,	“ 1866.
“ CRAIG BIDDLE, PHILADELPHIA,	“ 1866.
“ DANIEL KAINE, FAYETTE COUNTY,	“ 1867.
“ HENRY N. McALLISTER, CENTRE COUNTY,	“ 1867.
“ ARCHIBALD McALLISTER, BLAIR COUNTY,	“ 1867.

OFFICERS FOR THE CURRENT YEAR.

HON. FREDERICK WATTS, *President.*

“ EDWARD C. HUMES, *Treasurer.*

“ MOSES THOMPSON, *Secretary.*

BUSINESS COMMITTEE.

HENRY N. McALLISTER. | JAMES MILES.
FREDERICK WATTS.

FACULTY AND BOARD OF INSTRUCTION.

WILLIAM H. ALLEN, M. D., LL. D., PRESIDENT,

Professor of Political Economy and Constitutional and International Law.

JACOB S. WHITMAN, A. M., VICE-PRESIDENT,

Professor of Botany, Physiology and Horticulture.

THOMAS R. BAKER, M. S.,

Professor of Mathematics, Physics, and Analytical Mechanics.

JOHN H. LEAS, A. M.

Professor of English Language and Literature and Philosophy.

GEORGE C. CALDWELL, PH. D. B. S.,

Professor of Chemistry and Scientific Agriculture.

C. ALFRED SMITH, M. S. A.,

Assistant Professor of Chemistry.

ROBERT JENNINGS, V. S.,

Lecturer on Veterinary Art.

J. R. LINN,

Superintendent of the Farm.

J. M. LINN AND L. L. HAUGHAWOUT,

Teachers in the Preparatory Department.

CHAPLAINS.

REV. R. HAMMILL, REV. J. C. LAVERTY, REV. J. H. BARNARD.

REV. W. W. HICKS.

COLLEGIATE DEPARTMENT.

NAMES OF STUDENTS.

FIRST CLASS.*

NAMES.	POST-OFFICE.	COUNTY OR STATE.
Blickensderfer, Ulric,	West Springfield,	Erie.
Elder, Thomas A.,	Mifflintown,	Juniata.
Eldred, John E.,	Lock Haven,	Clinton.
Isett, Frank B.,	Spruce Creek,	Huntingdon.
Jones, Araspas,	St. Louis,	Missouri.
Pierce, Wallace,	Mount Hickory,	Mercer.
Russell, Theodore F.,	Pottsville,	Schuylkill.
Shortledge, John W.,	New Garden,	Chester.

SECOND CLASS.

Best, Ellery C.,	Salona,	Clinton.
Bubb, William H.,	Lebanon,	Lebanon.
Collier, William B.,	St. Louis,	Missouri.
Coon, Orville W.,	Waverly,	Luzerne.
Cremer, George C.,	Huntingdon,	Huntingdon.
Crook, Frank,	Baltimore,	Maryland.
Dysart, Edward B.,	Tipton,	Blair.
Higgins, Pennell C.,	St. George's,	Delaware.
Johnson, Tellico,	Buffalo,	New York.
Kaine, William W.,	Uniontown,	Fayette.
Kitchen, Moses W.,	Newark,	New Jersey.
Matthews, William G.,	Philadelphia,	Philadelphia.
McClay, John A.,	Green Village,	Franklin.
McClces, Edward B.,	Chester,	Delaware (Pa.,)
Milligan, Frank,	Haddonfield,	New Jersey.

* This class does not graduate this year, on account of four months' absence from the College, as hundred days' men.

McLanahan, William W.,	Milesburg,	Centre.
Mylin, Benjamin S.,	Lancaster,	Lancaster.
Sharples, Alfred D.,	West Chester,	Chester.
Sharples, Stephen B.,	West Chester,	Chester.
Smith, Harsell,	Ravenswood,	New York.
Stokes, Frank,	Philadelphia,	Philadelphia.
Stone, Almond,	Waverly,	Luzerne.
Trout, Carver C.,	Sharon,	Mercer.
Tybout, George M.,	Red Lion,	Delaware.
Tyler, William E.,	Philadelphia,	Philadelphia.
Wilkeson, William,	Buffalo,	New York.
Yeager, Henry C.,	Pittsburg,	Allegheny.

THIRD CLASS.

Allison, John M.,	Philadelphia,	Philadelphia.
Ambos, Emil,	Columbus,	Ohio.
Baird, Howard L.,	Pittsburg,	Allegheny.
Baker, Reuben,	Chatham,	Chester.
Ball, Charles E.,	Erie,	Erie.
Barriek, David H.,	Westbarre,	Huntingdon.
Beam, Eustin,	Harmony,	Butler.
Binder, Armand,	Philadelphia,	Philadelphia.
Boardman, Townsend H.,	Brooklyn,	New York.
Boardman, William T.,	Brooklyn,	New York.
Bredin, Joseph H.,	Butler,	Butler.
Breneman, Abraham A.,	Lancaster,	Lancaster.
Bridgens, William H.,	Salona,	Clinton.
Brientnall, Reynold H.,	Newark,	New Jersey.
Clark, Clarence H.,	Bloomsburg,	Columbia.
Dilworth, Nevins B.,	Pittsburg,	Allegheny.
Goodrich, Alexander W.,	Towanda,	Bradford.
Gordon, Cyrus,	Zion,	Centre.
Graffen, S. Mason,	Philadelphia,	Philadelphia.
Griffin, Newton R.,	Smithfield,	
Hamilton, Hugh,	Harrisburg,	Dauphin.
Hendershott, Albert F.,	Bloomsburg,	Columbia.
Harden, Albert S.,	Wheeling,	West Virginia.
Hill, William A.,	Washington,	District of Columbia.
Hosmer, John,	Meadville,	Crawford.
Jackson, Abraham W.,	Brooklyn,	New York.
Jarrett, Henry T.,	Lock Haven,	Clinton.

Johnson, Justus W.,	Germantown,	Philadelphia.
Judson, William,	Cleveland,	Ohio.
Kendig, Martin H.,	Lancaster,	Lancaster.
Kille, John C.,	Salem,	New Jersey.
Lex, Harry J.,	Philadelphia,	Philadelphia.
Linn, James C.,	Agricultural College,	Centre.
Marshall, R. Somers,	Pittsburg,	Allegheny.
Milligan, William,	Haddonfield,	New Jersey.
Moueypenny, S. Hillis,	New York,	New York.
Morris, Samuel L.,	Pottsville,	Schuylkill.
Newhall, Charles A.,	Germantown,	Philadelphia.
Nicholson, George S.,	Waverly,	Luzerne.
Phillips, Howard,	Harrison Square,	Massachusetts.
Putnam, J. B.,	New York,	New York.
Reynolds, Hugh W.,	Baltimore,	Maryland.
Sanger, Frank W.,	Brooklyn,	New York.
Schooley, Edward G.,	Humberstone,	Canada West.
Smith, Brainard,	Pittsburg,	Allegheny.
Stokes, James S.,	Philadelphia,	Philadelphia.
Stuart, Daniel P.,	Dover,	Delaware.
Taylor, S. Judson,	Sabbath Rest,	Blair.
Thompson, William,	Centre Furnace,	Centre.
Wallace, Spaulding K.,	Wheeling,	West Virginia.
Wilcox, William,	Philadelphia,	Philadelphia.
Wilcox, Joseph B.,	Philadelphia,	Philadelphia.
Wood, John F.,	Philadelphia,	Philadelphia.

FOURTH CLASS.

Ashton, Samuel M.,	Sharon,	Mercer.
Barnes, Samuel S.,	Lewistown,	Mifflin.
Benney, William C.,	Pittsburg,	Allegheny.
Berry, George,	Agricultural College,	Centre.
Bonnaffon, Albert L.,	Philadelphia,	Philadelphia.
Carter, Joseph B.,	Philadelphia,	Philadelphia.
Cash, Frederick,	Towanda,	Bradford.
Crawford, James H.,	Dover,	Delaware.
Crittenden, Charles,	Pittsburg,	Allegheny.
Dickenson, Lyman C.,	Ridgeway,	Elk.
Dickinson, William,	Ridgeway,	Elk.
Dysart, James H.,	Alexandria,	Huntingdon.
Foster, Thomas,	Agricultural College,	Centre.

Foster, William,	Agricultural College,	Centre.
Guyer, James,	Tyrone,	Blair.
Haines, Joseph R.,	Pleasant Grove,	Lancaster.
Hilt, Charles H.,	Philadelphia,	Philadelphia.
Hughes, Harry,	Mount Alto,	Franklin.
King, Charles R.,	Philadelphia,	Philadelphia.
McCulloch, Aiken,	Albany,	New York.
Murdoch, David B.,	Pittsburg,	Allegheny.
Newhouse, Alfred,	Philadelphia,	Philadelphia.
Prince, John F.,	Philadelphia,	Philadelphia.
Ranstead, Lyman F.,	Dorchester,	Massachusetts.
Shirk, Rudolph I.,	Fredericksburg,	Lebanon.
Seabrook, Thomas, Jr.,	Philadelphia,	Philadelphia.
Stanton, Edwin T.,	Rahway,	New Jersey.
Stone, Cyrus.	Cohasset,	Massachusetts.

RESIDENT GRADUATE.

Spear, J. N.,	Philadelphia,	Philadelphia.
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GRADES OF SECOND CLASS.*

NAME.	Mathematics.	Chemistry.	Natural History.	English Literature.	Practical Agriculture.	Conduct.	Average.
Best, Ellery C.,			8.01	7.6	8.0	7.5	7.8
Crook, Frank,	7.8	7.3	8.6	8.5	6.0	7.2	7.6
Dysart, Edward B.,				7.0	7.0	5.4	6.5
Kitchen, J. Moses W.,			8.5	8.3	6.0	9.0	7.9
MacLay, John A.,	7.6	6.4		7.8	6.0	8.0	7.1
McClees, Edward B.,		6.8	8.8	6.3	7.5	6.3	7.1
Sharples, Stephen G.,	8.9	8.7	9.0	8.9	9.0	7.9	8.6
Smith, Harsell,		6.8	8.4		8.0	7.1	6.9
Trout, Carver C.,				6.3	5.0	5.0	5.4
Tybout, George M.,			8.7	8.2	8.0	8.3	8.2
Tyler, Wm. E.,	8.4	7.0	8.0	8.2	6.0	9.0	7.7
Yeager, Henry C.,				5.9	7.0	7.0	6.6
Class Average,	8.1	7.1	8.6	7.5	7.0	7.3	

* The First Class, and part of the Second and Third classes, were not graded, on account of absence in service, as militia men. The names of all not graded are omitted.

GRADES OF THIRD CLASS.

NAME.	Mathematics.	Chemistry.	Botany.	Natural Philosophy.	English.	Practical Agriculture.	Conduct.	Average.
Ambos, Emil,		5.5		7.8	7.5	8.0	7.5	7.1
Baird, Howard L.,	9.0	8.8	9.0	8.9	8.9	8.0	9.0	8.8
Ball, Charles E.,		8.0	7.5	7.2	7.3	5.0	7.3	7.1
Barrick, David H.,	8.7	7.4	7.4	8.4	8.2	7.5	7.7	7.9
Beam, Enslin,				7.1	5.3	7.0	7.5	6.7
Binder, Armand,	5.3	4.4	6.1	7.8	5.9	8.0	8.5	6.6
Boardman, Townsend,	7.8	7.1	6.9	8.5		7.9	7.9	7.7
Boardman, William T.,	7.8	6.0	8.2	8.6	7.6	7.8	8.6	7.8
Bredin, Joseph H.,	8.0	8.3	8.6	8.4	8.4	6.0	7.8	7.9
Breneman, Abraham A.,	8.0	7.9	7.8	7.5	7.6	7.0	9.0	7.8
Bridgens, William H.,		5.7	7.2	7.6	7.1	6.5	7.3	6.9
Brientnall, Reynold H.,		8.9	8.0	7.9		8.8	8.8	8.5
Clark, Clarence H.,	4.3	2.3	6.4	6.7	5.9	6.4	6.4	5.5
Dilworth, Newall B.,	4.1	8.0	7.6	7.9	6.2	4.0	5.4	6.2
Goodrich, Alexander W.,	8.0	7.8	8.7	8.2	6.9	7.0	7.6	7.7
Gordon, Cyrus,	8.5	8.8	8.4	8.8	7.9	8.5	8.5	8.5
Graffen, S. Mason,				8.2	8.1	7.3	6.5	7.5
Guffen, Newton R.,			8.8	8.6	7.9	9.0	9.0	8.7
Hamilton, Hugh,	6.8	7.3	7.5	8.2	7.9	8.0	7.0	7.5
Hill, Wm. A.,		5.9	7.3	7.5	6.7	8.0	9.0	7.4
Hosmer, John,	6.0	6.4	7.2	7.7	8.0	7.0	7.6	7.1
Jackson, Abraham W.,		5.4	7.9	7.1	4.2	4.0	6.0	5.8
Janett, Henry T.,	5.9	5.9	6.9	7.6	7.5	8.4	8.0	7.1
Johnson, Justus W.,	7.8	6.4	6.8	7.3	6.9	8.3	7.0	7.2
Judson, William,	8.0	8.7	8.7	9.0	8.3	8.5	9.0	8.6
Kille, John C.,	8.1	7.4	7.4	8.0	7.4	8.7	9.0	8.0
Lex, Harry J.,	7.4	8.4	8.2	8.4	8.1	8.2	7.8	8.0
Linn, James C.,	7.8	7.3	7.5	8.0	7.9	9.0	9.0	8.0
Milligan, William,	5.0	5.5	7.0	7.3	7.2	7.0	6.4	6.5
Moneypenny, S. Hillis,	6.9	7.6	7.8	8.2	6.8	7.0	7.7	7.4
Morris, Samuel L.,	8.2		8.0	7.9	6.9	6.0	8.8	7.6
Newhall, Charles A.,		7.9	7.9	8.1	7.7	6.5	8.4	7.8
Nicholson, George S.,					8.1	5.0	6.4	6.5
Phillips, Howard,	9.0	9.0	8.9	9.0	8.5	9.0	9.0	8.9
Putnam, J. B.,	8.7				7.9	8.9	9.0	8.6
Reynolds, Hugh W.,	5.9	5.4	6.8	7.1	6.4	6.5	7.6	6.5
Sanger, Frank W.,		4.4	6.5	6.8	7.5	5.0	7.0	6.2
Schooley, Edward G.,	8.2	7.9	8.8	9.0	8.5	9.0	9.0	8.6
Smith, Brainard,		6.5	6.5	6.4	6.1	6.0	7.6	6.5
Stuart, Daniel T.,	5.8	6.7	7.8	7.9	7.7	7.8	6.4	7.2
Taylor, S. Judson,	8.0	7.4	8.5	8.7	8.1	8.5	8.8	8.3
Thompson, William,	7.5	4.8	7.6	7.8			7.5	7.0
Wallace, Spaulding K.,								
Wilcox, William D.,	9.0	8.6	8.9	8.7	7.1	8.0	9.0	8.5
Wilcox, Joseph B.,			7.9	8.4		5.0	8.4	7.1
Wood, John F.,	6.4	5.5	6.9	7.1	7.7	8.5	9.0	7.2
Class Average,	7.3	6.9	7.7	8.0	7.6	7.0	7.1	

GRADES OF FOURTH CLASS.

NAME.	Mathematics.	Physiology.	Natural Philosophy.	Phys. Geog. and Grammar	Practical Agriculture.	Conduct.	Average.
Ashton, Samuel M.,	5.1	5.6			5.0	5.1	5.2
Barnes, Samuel S.,	7.8		8.6	7.8	8.3	8.2	8.1
Benney, William C.,	5.2	7.5	7.8	7.5	5.3	7.6	6.8
Berry, George,	7.7		8.7	7.8		9.0	8.3
Bonnaffon, Albert L.,	4.9	6.5		6.3	4.0	6.0	5.5
Carter, Joseph B.,	5.1	6.6	6.8	6.7	5.7	7.0	6.3
Cash, Frederick,	7.6	6.1		5.1	6.3	6.7	6.4
Crawford, J. H.,	5.2	5.1	5.2	5.3	6.0	7.5	5.7
Crittenden, Charles,	4.6	6.7	7.2	6.6	4.0	5.9	5.8
Dickinson, L. Clark,	8.5	8.4	8.2	8.4	7.0	0.0	6.8
Dickinson, William,	8.3	8.0	8.3	8.5	7.0	8.0	8.0
Dysart, James H.,	8.6	8.4	8.8	8.9	7.6	8.1	8.4
Foster, Thomas,	5.2	5.4	5.2	5.4		7.0	5.6
Foster, William,	5.2	5.1	5.5	5.2		7.0	5.6
Guyer, James,	7.2	8.0	7.6	7.3	6.5	7.1	7.3
Haines, Joseph R.,	8.5	7.9	8.7	9.0	8.0	9.0	8.5
Hilt, Charles H.,	5.6	6.2	5.0	4.3	3.0	3.7	4.6
Hughes, Harry,	6.3	7.0	6.1	7.7	6.0	8.0	6.8
King, Charles R.,	5.5	5.4	5.7	5.8	6.5	8.0	6.1
McCulloch, Aiken,	5.2	8.6	8.4	8.9	6.0	8.2	7.5
Murdoch, David B.,	8.4	8.7	8.8	9.0	8.0	9.0	8.6
Newhouse, Alfred,	6.5	5.8	6.0	7.3	6.0	0.0	5.3
Prince, John F.,	7.8	8.1	8.2	8.5	8.0	8.0	8.1
Ranstead, Lyman F.,	4.8	4.9	5.1	4.3	5.0	6.5	5.7
Shirk, Rudolph I.,	4.6	6.8		6.5	7.0	7.0	6.4
Seabrook, Thomas, Jr.,	7.0	7.0	7.6	6.7	7.0	7.0	7.1
Stanton, Edwin F.,	8.4	8.4	8.4	8.5	6.0	0.0	6.6
Stone, Cyrus,	9.0	9.0	9.0	9.0	7.8	8.5	8.7
Class Average,	6.5	7.0	7.3	7.1	6.1	6.8	

SUMMARY.

First Class,	8
Second “	27
Third “	53
Fourth “	28
Resident Graduate,	1
Preparatory Department,	29
Total,	146

REQUISITES FOR ADMISSION.

Candidates for admission to the Fourth Class, will be examined on the studies of the Preparatory Course, or their equivalents.

For admission to any of the higher classes, candidates will also be examined on the studies which have been pursued by the classes they propose to enter, or their equivalents.

In all cases, certificates of good character must be presented, before any examination will be granted.

COURSE OF STUDY.

FOURTH CLASS.—Higher Algebra to Combinations—*Ray*; Legendre—seven books; Universal History; Natural Philosophy; English Literature.

THIRD CLASS.—Legendre Completed; Trigonometry, Surveying, Navigation; Mathematical Drawing; Rhetoric; Logic; Agricultural Law; Botany; Horticulture; Entomology; Zoology; Guyot's Physical Geography.

SECOND CLASS.—Analytical Geometry; Calculus; Roads and Building Materials—*Lectures*; Anatomy and Physiology; Botany; Chemistry—*Stöckardt*; Physical Chemistry—*Lectures*; Mineralogy—*Lectures*; Political Economy; Mental Philosophy; Constitutional Law; Laboratory Practice.

FIRST CLASS.—Analytical Mechanics; Astronomy; Chemistry: Inorganic, Organic, and Agricultural—*Lectures*; Scientific Agriculture—*Lectures*; Geology; Moral Philosophy; International Law; Natural Theology; Evidences of Christianity; Laboratory Practice; Research for Graduation; Thesis.

Elocutionary exercises will be required during the whole course.

PREPARATORY DEPARTMENT.

NAMES OF STUDENTS.

NAMES.	POST-OFFICE.	COUNTY OR STATE.
Barnhurst, William D.,	Philadelphia,	Philadelphia.
Beam, Samuel,	Harmony,	Butler.
Binder, Clarence K.,	Philadelphia,	Philadelphia.
Bryant, Willis L.,	Allegheny,	Allegheny.
Carnahan, William,	Philadelphia,	Philadelphia.
Cooper, Eugene,	Philadelphia,	Philadelphia.
Diekerson, Charles T.,	Philadelphia,	Philadelphia.
Harrington, Augustus R.,	Dover,	Delaware.
Hendry, Theodore A.,	Philadelphia,	Philadelphia.
Leiber, George,	Philadelphia,	Philadelphia.
Lingle, Wickliffe C.,	Bellefonte,	Centre.
Little, John P.,	Oakland,	Allegheny.
McClelland, William,	Butler,	Butler.
Moore, Henry T.,	Towanda,	Bradford,
Morris, Howard,	Pottsville,	Schuylkill.
Patterson, John D.,	Philadelphia,	Philadelphia.
Pearson, James M.,	Lawrenceville,	Allegheny.
Piggott, Harry E.,	Philadelphia,	Philadelphia.
Reed, Charles M.,	Philadelphia,	Philadelphia.
Reeves, Thomas B.,	Salem,	New Jersey.
Robison, Robert B.,	Allegheny,	Allegheny.
Rolshouse, Samuel A.,	Perryville,	Allegheny.
Saylor, Benjamin E.,	Plaineville,	Luzerne.
Smith, Anak R. P.,	Pittsburg,	Allegheny.
Stavely, Joseph H.,	Natrona,	Allegheny.
Underwood, Amos A.,	Chatham,	Chester.
Wagner, Samuel A.,	Philadelphia,	Philadelphia.
Whiteside, William H.,	Germantown,	Philadelphia.
Whitman, Horace S.,	Agricultural College,	Centre.

GRADES.

NAME.	Orthography.	Reading.	Pennmanship.	Mathematics.	Grammar.	Geography.	Physiology.	Practical Agriculture.	Conduct.	Gen. Average.
Barnhust, William D.,	8.3	7.5	6.5	8.2	7.5	7.3		5	7.8	7.5
Beam, Samuel,	6	6		5		5.5		7	8	6.1
Binder, Clarence R.,	8.9	8.3	7.5	8.9	8.5	8.7	8.7	7.5	9	8.5
Bryant, Willis L.,	7	6	8.2	6.8	6.6	7.5		5	5.5	6.8
Carnahan, William,	8.5	8	9	8.5	8.5	6.5	6.5	7	8.5	8.1
Cooper, Eugene F.,	8.2	8	8	7.5	7.8	6.5	6	9	9	7.8
Dickerson, Charles T.,	9	7.2	7.8	6.8	6.4		5.8	7	8.8	7.4
Harrington, Aug. R.,	8	8.9	6	5.5	5.3	7.5		5	7	7
Hendry, Theodore A.,	8	6.5	6.5	6.7		6.8		4	7.5	6.8
Leiber, George,	5.5	7	7	8.2	7	5.5	5	4	4	6.3
Lingle, Wickliffe C.,				7.5		7		8	6	7.5
Little, John P.,	8	8.5	7.2	8.5	8	8		6	7.5	7.9
McClelland, William,	7.5	7.5	7.8	8.5	7.8	7.5	6.8	8.3	8	6.5
Moore, Henry T.,	6.5	5.5	8.5	5.5		6.3		5	7.5	6.6
Morris, Howard,								4	5.5	
Patterson, John D.,	6.4	4.5	6.5	5.5		6.5		6.5	6.5	5.9
Pearson, James M.,	7.8	7	7	6.5		7.5		7.5	7.5	7.2
Piggott, Harry E.,	7.2	6.5	7.2	7.5	6.5	7.1	6.4	8	7.5	6.9
Reid, Charles M.,	7.8	6.2	4.5	6.5		7.5		7	4.5	6.1
Reeves, Thomas B.,	8.7	8	8.8	8.5	8	7.5	6	8.5	9	8
Robinson, Robert B.,	8.5		8	8.5	7.9	7.3	7.1	6	6.5	7.6
Rolshouse, Samuel A.,	8.5	7	8.8	8.7		8.7		*9	9	8.4
Saylor, Benjamin E.,	8.7	8	8	8.5	8.5	8.5		8	8.5	8.4
Smith, Anak R. P.,	7.5	7.8	7.5	7.9	7.3	7.8		5	7.5	7.6
Stavely, Joseph H.,	8.2	8.1	7.8	7.9	7.5	8	7.5	7.5	8	7.8
Underwood, Amos A.,	4.5	4.7	6.5	6		6		8.5	8.3	6
Wagner, Samuel A.,	7	5	7	6.5	7.2	7.2		4	6.5	6.9
Whiteside, William H.,	9	7.5	8	8.2	8.2	8.5	8.7	8	9	8.3
Whitman, Horace S.,	7	7	7.8	7.2	6.8	7.5			8	7.4
Class Average,	7.6	6.8	7.1	7.3	7.4	7.3	6.7		7.6	

REQUISITES FOR ADMISSION.

Certificates of good character and fair acquaintance with the rudiments of English Grammar, Geography, and Arithmetic.

Applicants for admission to the First Preparatory Class will be examined in the studies of the Second Class.

COURSE OF STUDY.

SECOND PREPARATORY CLASS.—Arithmetic; English Grammar and Composition; Reading, Writing, and Orthography.

FIRST PREPARATORY CLASS.—Elementary Algebra; History of the United States; Elementary Physiology; Book-Keeping; English Grammar and Composition; Reading and Orthography.

DEGREES.

Students who successfully complete these courses of study, pass satisfactory examinations, and prepare a dissertation of not less than twelve pages of foolscap paper, upon some scientific or literary subject, (if scientific, it must embrace an original investigation,) approved by the Faculty, and whose general standing in the school shall have been good, may, upon the recommendation of the Faculty, have the degree of Bachelor of Scientific and Practical Agriculture, *B. S. A.* conferred upon them by the Board of Trustees.

Students who, after taking the degree of *B. S. A.*, shall devote three years to Practical Agriculture, or to any other intellectual pursuit or profession, may take the degree of Master of Scientific and Practical Agriculture; (*M. S. A.*.) or if they remain another year in the institution, and devote their time to special investigations, they can take this degree at the termination of the year.

PARTIAL AND ADDITIONAL COURSES OF STUDY.

To students who are not able to take so high a course in Mathematics, permission will be given to substitute in the place of this study, a more extensive prosecution of the study of any of the Natural Sciences than is required in the full course. To those completing such a course of study suitable diplomas will be awarded.

PRACTICAL COURSE.

For the benefit of any who wish to acquire general Scientific knowledge, and special practical information, preparatory to the prosecution of farming, a practical course may be selected from the regular College studies.

This course is designed for such as wish to remain for a limited period only, in order to become familiar with the various operations of the farm, garden, and nursery, and at the same time attend some of the classes in the College.

The Practical Course is not recommended to any but those who are unable, on account of ill health or age, or for any other good reason, to take either the full or Scientific courses; and no one under twenty-one years of age will be permitted to take it, without a written request to that effect addressed to the Faculty, by his parent or guardian.

LABORATORIES, APPARATUS AND OTHER AUXILIARIES TO STUDY.

There are three Laboratories for the use of the students in Chemistry:—a large one, for beginners, and two smaller ones for advanced students and resident graduates. Each is provided with every suitable convenience. In other rooms attached to the Chemical Department are some of the best aids and appliances for the prosecution of scientific agricultural investigations.

Good philosophical apparatus has been provided for the illustration of all the branches of *Natural Philosophy*, and the opportunity is afforded to students to learn to use this apparatus themselves.

A transit instrument of the best quality belongs to the *Mathematical Department*, as well as ordinary surveying apparatus for the use of students.

For the illustration of *Botany* there are extensive collections of European and American plants, microscopes, a botanical garden and green house, with native and foreign plants; a nursery for practice in budding, grafting, etc., and anatomical preparations of vegetable structure. The neighboring Flora, embracing a wide range of valleys and mountains, affords excellent opportunities for botanical excursions.

In *Geology* and *Paleontology* is a collection of nearly six thousand specimens of rocks, limestones, fossils, ores, etc., from all parts of the State, and a large collection from Europe. The neighborhood is one of the finest in the world for the study of the numerous subdivisions of the Palæozoic rocks, from the “primal” to the “seral” of Rogers: in all of them the student will have a good opportunity of collecting specimens.

In *Mineralogy* and *Crystallography* is a good collection, embracing specimens of all the ordinary minerals, and many rare ores, portions of which can be used for practice in blow-pipe analysis; there is also a good set of crystalline models in wood and glass.

For the illustration of *Practical Agriculture* and *Horticulture* is a farm of four hundred acres of limestone land, coming into a good state of cultivation, and provided with implements and machines for efficient farm practice.

Manurial experiments will be made every session, and full opportunity will be afforded to the students to observe their operation. Each student will be enabled to familiarize himself with all the varied operations of the farm, garden nursery work, and the management of farm stock. A small nursery is devoted specially to practice for students.

The *Library* consists of an extensive collection of literary and scientific works, with maps, diagrams and charts, all of which are accessible to students. Each Society has its library also.

Two Students' Societies, the Cresson Literary, and the Washington Agricultural, have been in operation since the organization of the Institution. Each has a commodious room, well furnished, for its meetings.

Frequent *excursions* will be made with the classes. The neighboring valleys and mountains afford rare opportunities for the study of Botany, Physical Geography, Palæontology and Geology. The great synclinal and anticlinal Palæozoic waves east of the Alleghenies are here shown in every variety of position, and angle of inclination; while good out-crops are to be seen of nearly all the subdivisions of Palæozoic rocks, from the lowest to the coal measures.

In summing up the advantages offered by this Institution, for the prosecution of useful and healthful study, it may be said that the student has an opportunity of seeing all the practical operations of the Farm, Garden and Nursery performed in the most approved manner, with the use of the best manures, seeds, tools and implements; and, what is of more importance, he studies in the class-room and laboratory the scientific principles involved in all he does, and by becoming a scientific man and analytical chemist, he is enabled to protect himself and others against the frauds that are continually being practised upon the uneducated, by dealers who are themselves either ignorant of science, or who use it to impose on the community. He learns how to study the geology, mineralogy and chemistry of the soil he cultivates, the botany of the plant he grows, and the laws of health and diseases of the animals he uses. He is thus made thoroughly acquainted with the laws and phenomena of the material world, with which he is in immediate contact, and about which a majority of farmers are deplorably ignorant. It cannot be denied that a knowledge

of these is essential to material success and intellectual pleasure in the pursuit of Agriculture.

To persons in cities who may wish their sons to become familiar with the details of practical agriculture and science, and at the same time to cultivate associations of rural life, either with a view to settling on farms, or increasing their capacity for business in town by acquaintance thus formed with the habits of the country, the Agricultural College of Pennsylvania affords excellent advantages.

Those desiring a good scientific and practical knowledge of chemistry, with a view to the practice of pharmacy, or the manufacture of chemical salts or manures, or pursuing mining, engineering, or any of the industrial arts, will find opportunities here well worth improving.

All will find the advantages of a most healthy and pleasant location, in a neighborhood free from the various allurements of city and village life.

CONDITIONS OF ADMISSION.

Qualifications.—Applicants for admission to the Preparatory Department, must have attained the age of fourteen years; and for admission to the Collegiate Department, except when the student may have finished the preparatory studies at an earlier age in the Preparatory Department of the College, sixteen years. Satisfactory certificates of good moral character and industrious habits must be presented by all applicants.

On entering, they must consider themselves *pledged to conform to all the rules and regulations of the Institution*, among which is the daily performance of three hours' manual labor, and more if necessary, in cases of emergency. This contingency will be likely to occur only at the time of harvesting.

Payments.—For board, washing, room rent, fuel and tuition for the session, two hundred dollars. One hundred dollars must be paid in advance on entering, and on the first of July one hundred dollars more. A strict compliance with this rule is necessary to the success of the Institution; therefore, no one can be allowed to remain at the College more than *ten days*, who is indebted to it for either of these sums.

Applications.—These may be made either by addressing the President of the Institution directly, or through the Agricultural Society of the county in which the applicant resides.

Certificates of Character.—These should be signed by the student's last teacher, or by some officer of the Agricultural Society of the

county in which he resides, or by some other friend of moral and agricultural improvement.

It is the earnest desire of the officers of the College to fill it with industrious, trustworthy and gentlemanly students, whose sense of honor and appreciation of duty will be a guarantee that they conform to its rules and regulations, and it is their intention to admit no others.

EXTRA EXPENSES, ETC.

In addition to the two hundred dollars above mentioned, students will incur the following expenses:

Books and Stationery.—These will be supplied at city retail prices, and will cost about eight dollars a year for members of the third and fourth classes, and ten dollars for those of the first and second classes.

Apparatus.—The students of the first and second classes will require about twenty dollars' worth of apparatus, with which to study chemical analysis in the laboratory. This, when not damaged, will be taken back, if desired, at the close of the year, at a reduction of twenty-five per cent. on the first cost. With ordinary care, when so returned, the cost of it a year will not exceed eight dollars. An expense of about ten dollars a year will be necessary for chemicals.

Bills for books, stationery, apparatus and chemicals, must be settled at least every three months.

Incidental Expenses.—These, for light, broom, towels, pitcher, wash-bowl, mirror, etc., need not exceed five or ten dollars per annum.

Economy.—As it is desirable to impress upon students the necessity of forming habits of economy, parents are advised not to be too liberal in giving them money, and they are recommended to deposit such sums as they may intend for their sons or wards in the hands of the Faculty, who will see that it is not spent improperly.

Clothes.—Each student should come prepared with an additional suit of clothes, of common material, for wear while working on the farm. As warm weather will commence soon after the beginning of the term, he should also make arrangements, previously to entering, for a supply of summer clothing.

Beds and Bedding.—Students will be supplied with bedsteads, mattresses and bolsters, but are required to find all their bed clothing. They will need two blankets, three sheets, two bolster cases, one pillow, and three pillow-cases, a comfortable and a spread. All articles of clothing must be marked with the full name of the owner.

PREPARATORY DEPARTMENT.

This department has been instituted to meet the wants of persons wishing to send boys who are too young, or not sufficiently far advanced to enter the fourth class in the College course.

A commodious room, well lighted and heated, and fitted up with the most approved form of single desks and chairs, and other needful appliances, is devoted to this department.

The teacher, during study hours and in the evening, is constantly with the students; and every effort is made to afford them all possible means of rapid improvement.

LOCATION AND MEANS OF ACCESS.

The College is located ten miles S. S. W. of Bellefonte, and may be reached:

First. By the Pennsylvania Railroad to Spruce Creek, or Tyrone. From Spruce Creek a stage-coach leaves on Tuesdays, Thursdays and Saturdays, passing the College for Bellefonte, and returns on the intermediate days. Cars run *twice* a day from Tyrone to Bellefonte; from which place the college is readily accessible by stage or by livery accommodations.

Second. By the Sunbury and Erie Railroad to Lock Haven; thence, by railroad to Bellefonte, and to the College as just mentioned.

The railroad routes to Bellefonte are the most convenient and expeditious for persons coming by the Sunbury and Erie and the Pennsylvania Railroads. The stage route from Spruce Creek is a little cheaper for people coming from the eastern part of the State.

RULES AND REGULATIONS.

STUDENTS ARE REQUIRED,

1. To arise in the morning at the ringing of the first bell, put their rooms in order for inspection, and prepare for breakfast, in accordance with the special directions given.

2. To be punctual in attending to all their duties in the recitation rooms, chapel, laboratories, dormitories, or wherever else their duties may be assigned; and to comply promptly with the requisitions of all the officers of the Institution.

3. To extinguish their lights and go to bed at the ringing of the evening bell for retiring.

4. On Sunday to attend the regular devotional exercises of the chapel, and to do nothing inconsistent with a proper observance of the day.

5. To use the tools, implements, machines, apparatus and other things belonging to the Institution with a proper regard to economy, and to pay for all damages done to them above that resulting from their proper use.

6. To pursue at least three studies.

STUDENTS ARE FORBIDDEN.

7. To use intoxicating liquors as a beverage, or to have any thing to do with them in any form. To use tobacco any where about the College building or on the College farm, excepting in their own rooms; to play cards or to keep them about the College, or to use profane, vulgar or obscene language, *under any circumstance whatever.*

8. To invite to the Institution, or to receive in their rooms, or about the College buildings, students who have been suspended or expelled from the College.

9. To enter into any conspiracy or use persuasive and imperative language to induce others to do so, for the purpose of securing offenders against the rules of the College from detection. This is a very grave offence, since the conspirator's pledge to secrecy is an invitation to the vicious to commit offences.

10. To enter any private room in the absence of its proper occupant, or to go into any public room or museum without permission, or to keep any key that will unlock any other than their own rooms.

11. To take any dishes or victuals from the table, except in accordance with the special directions given in case of sickness.

12. To leave their rooms during study hours without permission of the officer having oversight of their rooms, or to leave the College without permission of the President.

13. Without special permission to enter the washing or kitchen department; or at any time to be present with the working details.

EXCUSES AND EXEMPTIONS.

Exemptions from any of the duties implied in the foregoing rules can only be obtained from the officer who requires the performance of them. Thus, to be absent from recitation, the excuse must be granted by the professor hearing the class; to be absent from chapel, the person calling the roll for the time; to be absent from work, the person superintending the work, etc.

In general, the student is required, according to the best of his ability, to *do right*.

If this simple requisition be complied with, he will conform to all the rules of the Institution.

OBITUARY.

DR. EVAN PUGH, the late lamented President of this Institution, died in April last, in the midst of his arduous labors here, after a sickness of but one week's duration. The following extract, from a series of resolutions passed by the Board of Trustees soon after the occurrence of that sad event, constitutes the most fitting notice thereof for insertion here:

Resolved, That whilst we submit with humble resignation to the will of God, who has removed hence our friend and colleague DR. EVAN PUGH, in the prime and vigor of manhood, and in the midst of usefulness, we are forced to wonder at the shortness and uncertainty of human life, and at the inscrutable ways of Divine Providence.

Resolved, That we add our testimony to that of the community in which he lived and died, by recording here our sense of his many excellencies as a courteous, sincere and high-minded gentleman, a true and steadfast friend, a punctual and honorable man, a patriotic and public-spirited citizen, and a scholar of high attainments; and that we will ever cherish the memory of these qualities, which, in all our intercourse, so endeared him to us.

Resolved, That we now appreciate more highly than ever the value of his devoted attachment to the interests of Agriculture, his disinterested services to the Institution over which he so ably presided, and the industry with which he prosecuted his noble purpose, to elevate the public mind in its appreciation of agricultural science.

Resolved, That we are made truly sensible of this by the almost irreparable loss which his death has inflicted upon the Agricultural College of Pennsylvania, to which his life and services were so freely devoted.

CONCLUDING REMARKS.

The following resolution was adopted by the Board of Trustees in October last:

Resolved, That the President be instructed to examine the subject of the introduction of military tactics into the Institution, and recommend to the Board how they may best comply with the requisition of the act of Congress, and in the mean time that he be directed to organize such a system of drill of the students as will prepare them for a more perfect organization.

Under the foregoing resolution, and until the revenue from the endowment shall justify the employment of a Professor of Tactics and Army Regulations, it is proposed to organize one or two companies for instruction in the school of the soldier and in company drill, under the command of officers who have had experience in the military service.

In the mean time, no student who has conscientious scruples against bearing arms, will be required to drill.

The interest of the fund to be raised by the sale of the Land Scrip, granted by Congress to this Commonwealth, has been appropriated by the Legislature to the support of this College. No revenue has yet been received from that source, and as only a small part of the scrip has been sold, the income which may be derived from the investment of the proceeds, during the year 1865, will be inadequate to the wants of the Institution, even under its present limited organization. But

it is confidently expected that a large portion of the scrip will be sold during the coming year, and the money securely invested for the benefit of the college. This will enable the Trustees to enlarge its facilities and agencies for instruction, and to make the Institution a model farm and model school.

CALENDAR AND CORRESPONDENCE.

The Session for 1865 will open on Tuesday, the 28th of February, and close on the second Wednesday in December.

For further information, address WILLIAM H. ALLEN, President, Agricultural College, Centre County, Pennsylvania.